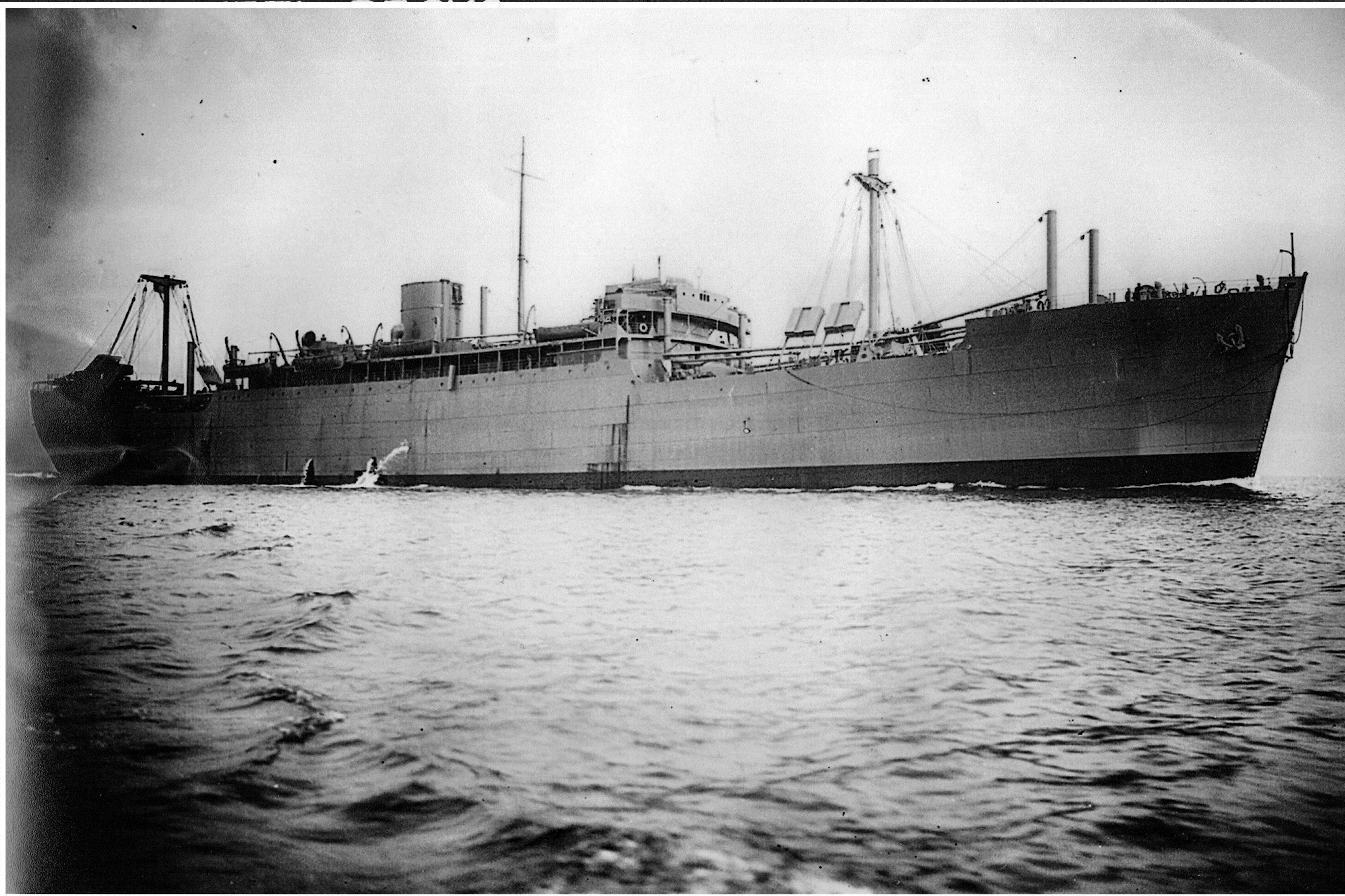


Nos 1078-9-80-1 & 1083^G.

PL

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274

W.S. 321A


HARLAND & WOLFF LTD.
BELFAST

(6)

No. 1078-1081
TITLE Longitudinal & Transverse
Framing
DATE APPROVED 9. 11. 11

?
Scantlings in way of
oil tanks

1158 59 + 1164

Belfast Report No. 13221  Calc

1078

1080

13281 Empire Chapman

1081

13305 Empire Fletcher

1079

13343 - Empire Spencer

1158

13456 - Empire Benbow

1159

13590 Empire Indusby

1164

13417 " Benefit

1189

13560 " Draeller

Scantlings in way of Oil Tanks and
Longitudinal Framing

PLANS TRANSFERRED
TO SISTER VESSEL

Gringdale I



© 2021

013627 - 013631 - 0115

Lloyd's Register
Foundation

9 APR 1944

Nos 1078-9-8-1 & 1083 G

SINGLE SCREW MOTOR TANKER

SCANTLINGS IN WAY OF OIL TANKS

DIMENSIONS:- 460'-0" B.P. x 59'-0" M.L.P. x 34'-0" M.D.

TO CLASS LLOYDS 100A1* "CARRYING PETROLEUM IN BULK"

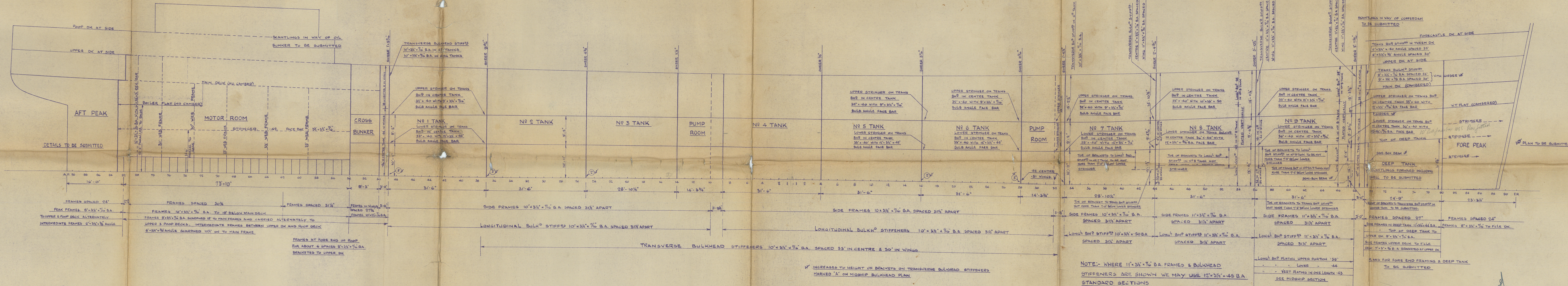
LONGITUDINAL FRAMING AT BOTTOM AND AT DECK

SCALE:- $\frac{1}{8}" = \text{ONE FOOT}$

ALL BULB ANGLE SECTIONS ARE N.B.S.

NOTE:- SCANTLINGS OF TRANSVERSE BULKHEAD STIFFENERS AND STRINGERS AND THICKNESS OF TRANSVERSE AND LONGITUDINAL BULKHEAD PLATING WHERE NOT OTHERWISE INDICATED TO BE AS APPROVED ON BULKHEAD PLAN AND MIDSHIP SECTION BULKHEAD BOUNDARY BARS AS PER RULE.

FEATHERS OF TRANSVERSE BULKHEAD STRINGER BRACKETS TO LONGITUDINAL BULKHEAD TO BE SUITABLY INCREASED WHEN STRINGERS ARE INCREASED CLEAR OF MIDSHIPS.



9. H. K.

013627-013631-0115

33

HARLAND & WOLFF LTD.
BELFAST

No. 3 1078-1081

TITLE: Steel Deck

DATE APPROVED: 18. 4. 40

RETAIN

Abv 1158, 1159, 1164

1079 Belfast Report No
1088 Belfast Report No
1080

13343 -

Empire Spence



13221 -

Dunsdale

13381 Empire Chapman

13305 Empire Fleetley

13456 Empire Beaulieu

1159

13570 Empire Indursty

1164

13417 " Benefit

1189

13560 " Dravner.

1158, 1159, 1164, 1189, 13343, 13221, 13381, 13305, 13456, 13570, 13417, 13560

6/8511 en

RETAIN

W1122 - 0122



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Lloyd's Register
Foundation

18 APR 1940

N^{os} 1078-9-80-1 & 1083^G.

PLAN OF STEEL DECKS.

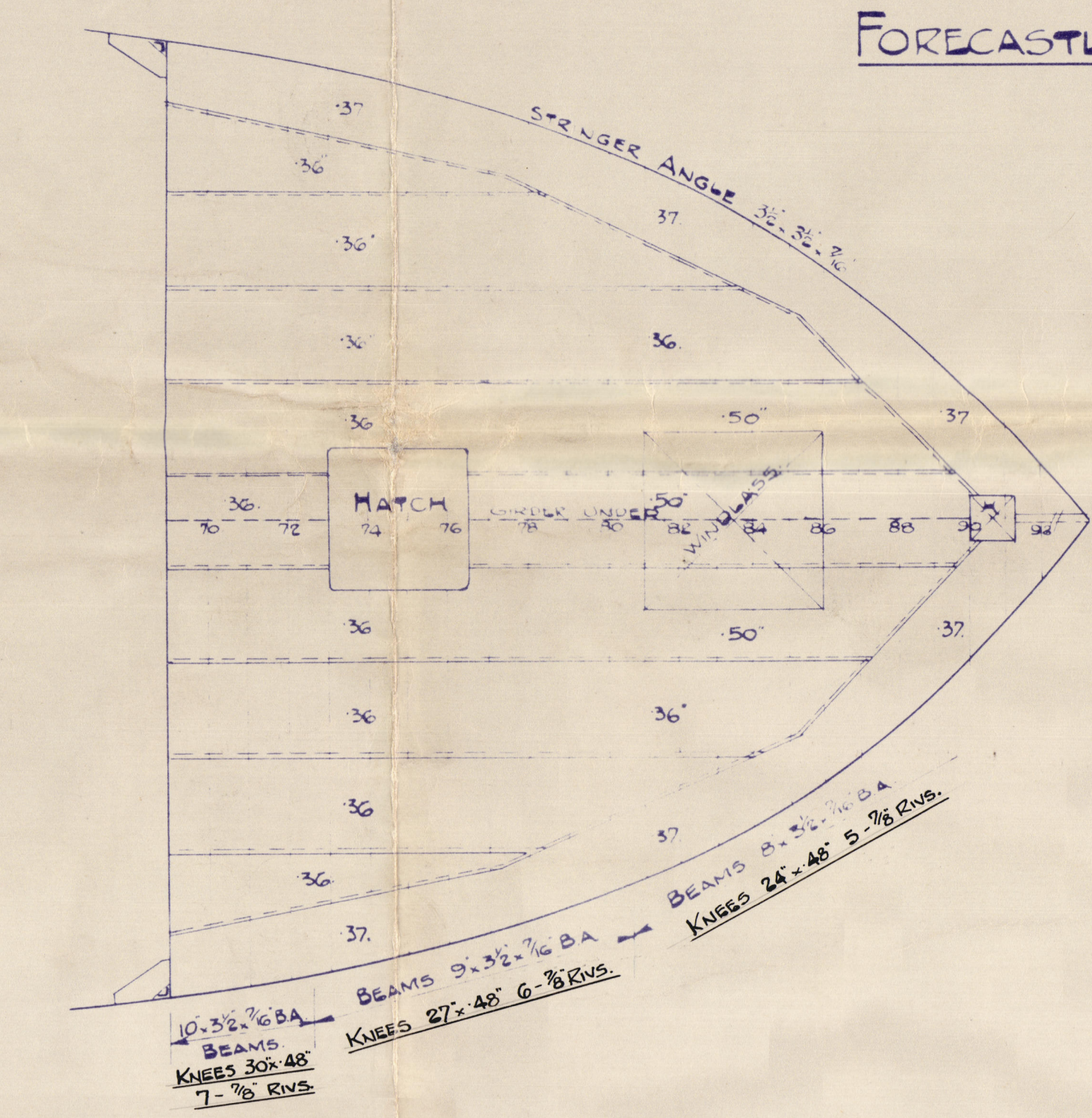
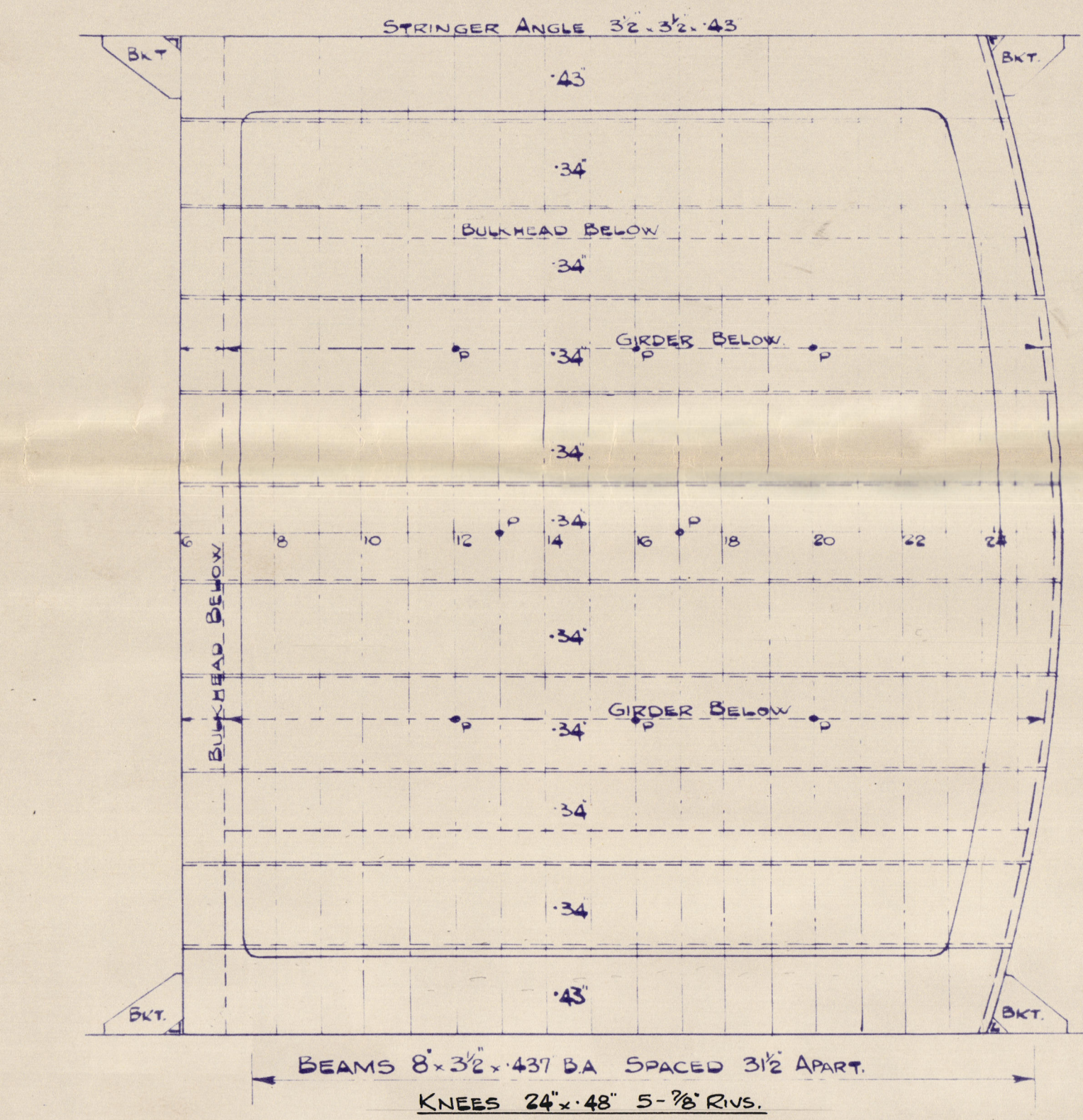
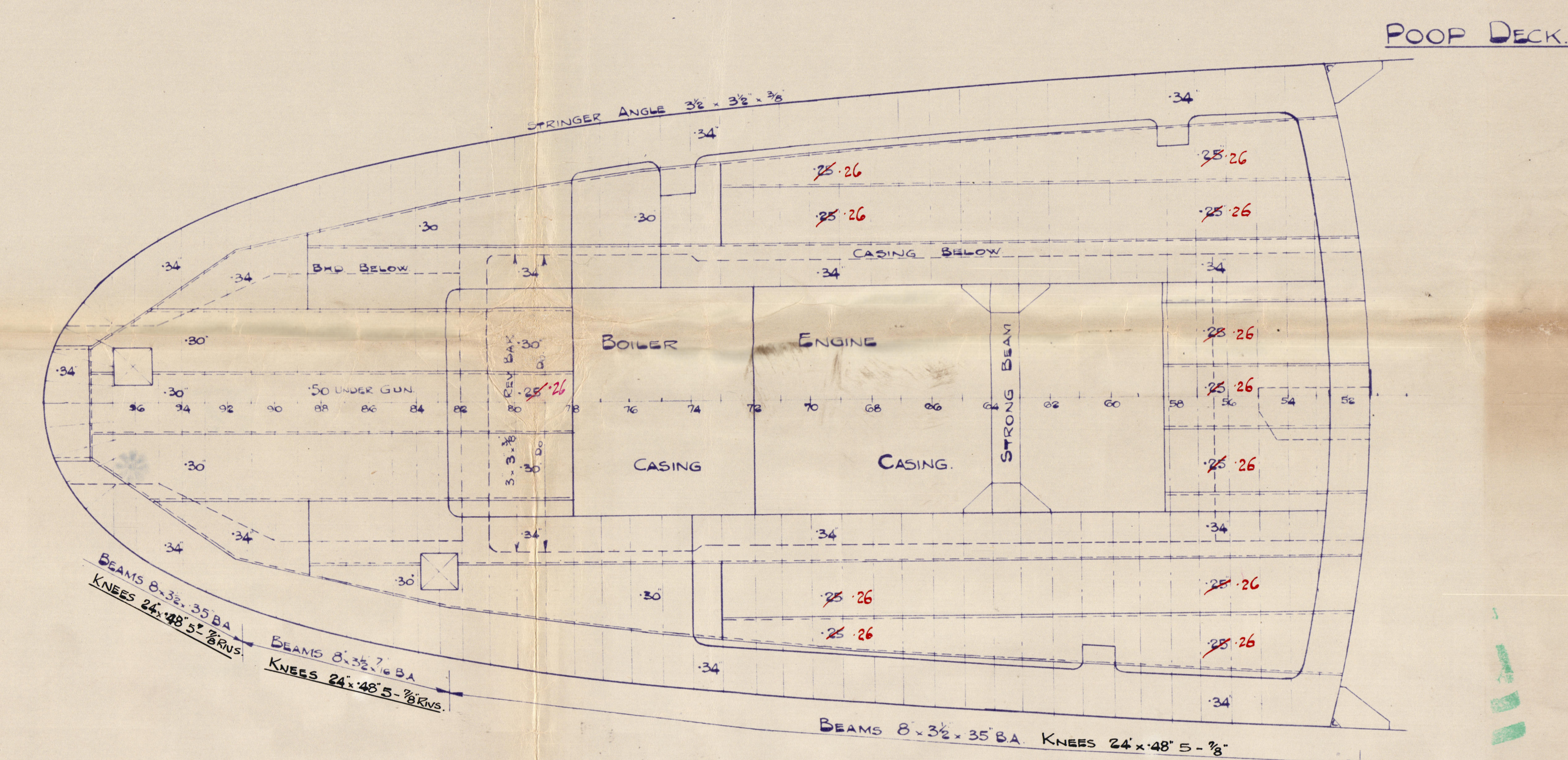
DIMENSIONS 460'-0" B.P. x 59'-0" MLD. x 34'-0" MLD.

SCALE 1/8" = 1 FOOT.

TO CLASS LLOYDS 100A.1 "CARRYING PETROLEUM IN BULK"

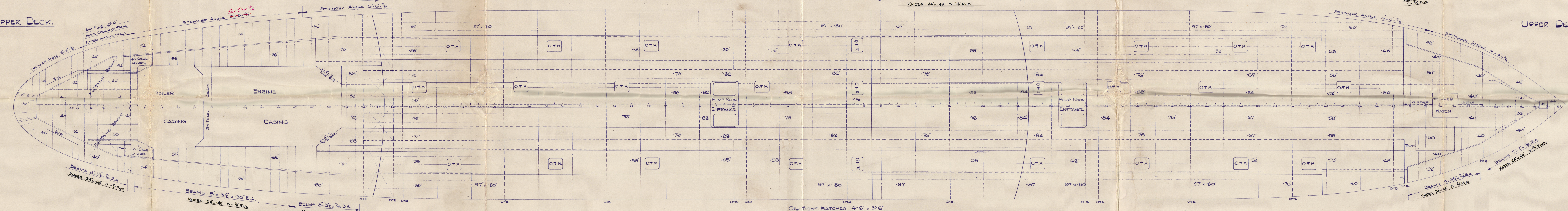
BRIDGE DECK.

FORECASTLE DECK.



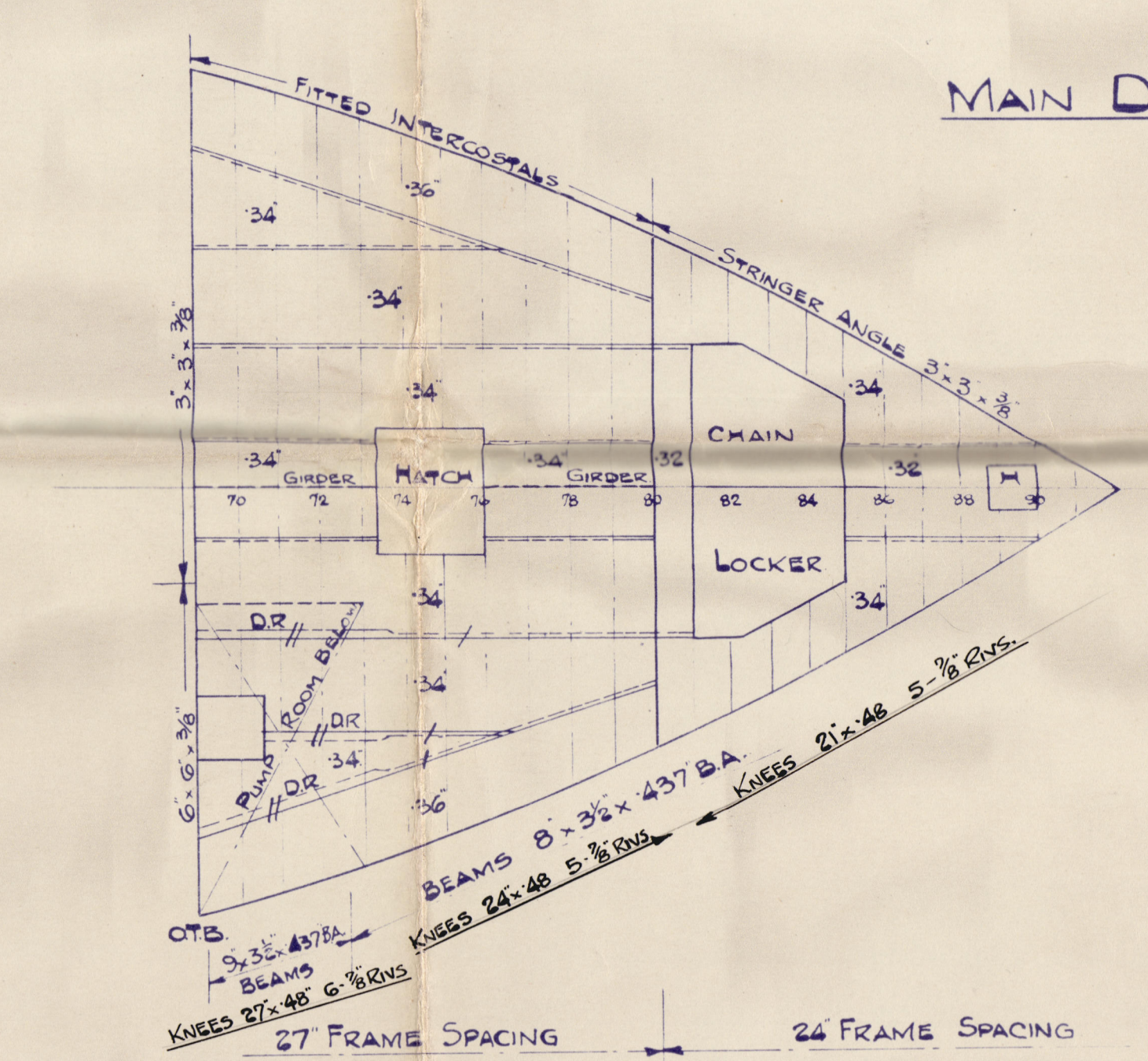
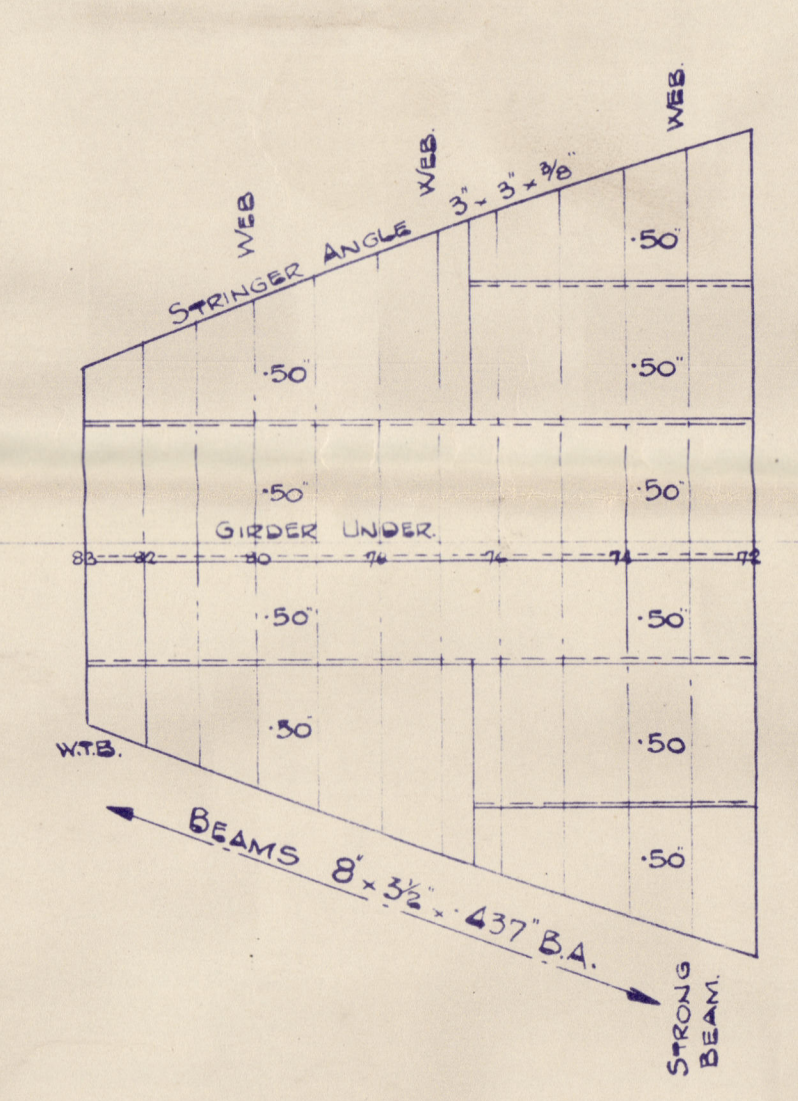
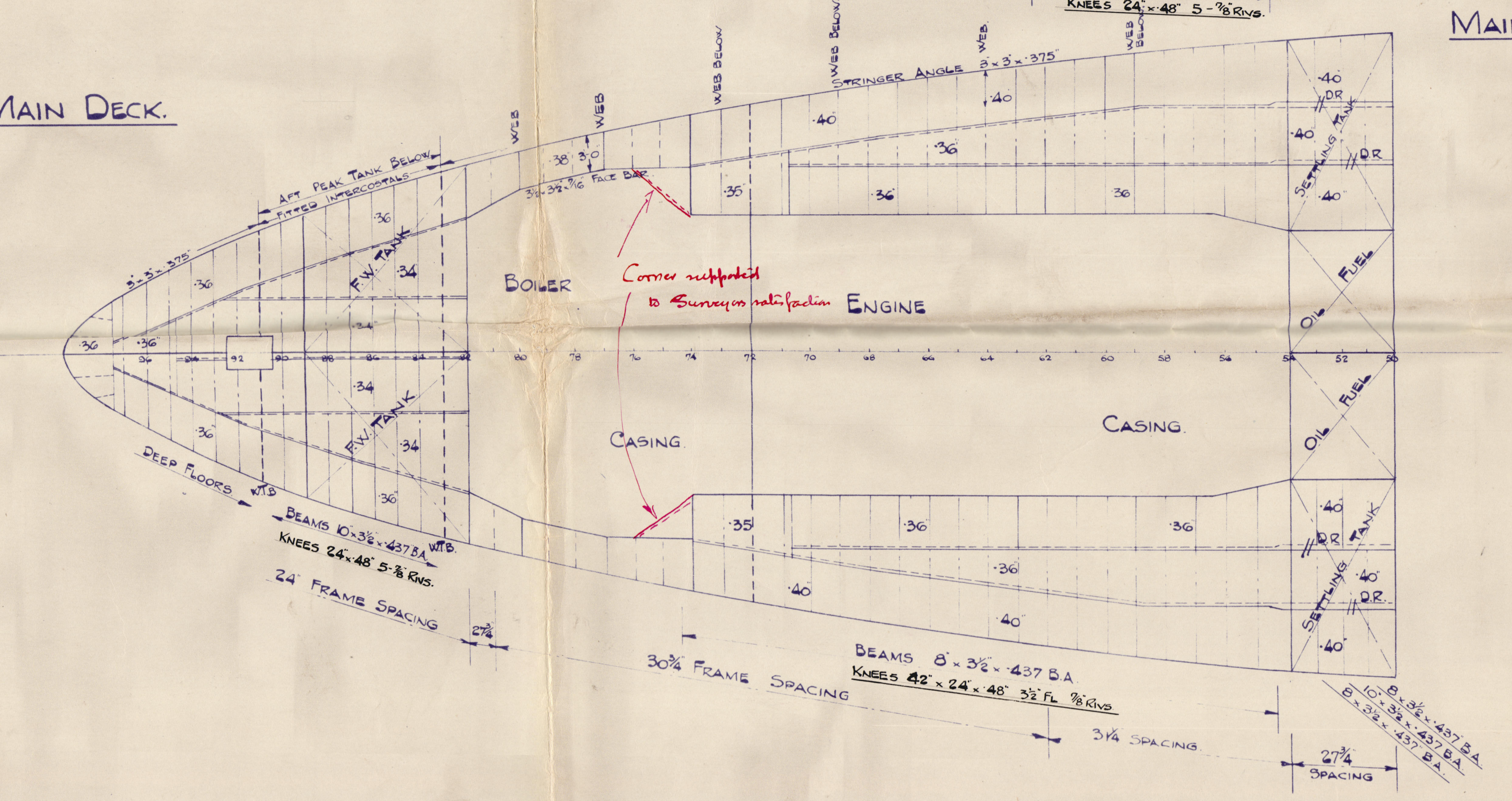
UPPER DECK.

UPPER DECK.



MAIN DECK.

MAIN DECK.



21

HARLAND & WOLFF LTD.
BELFAST

No. 1078-1081

TITLE *Ship Section*

9. 4. 40

1158, 1159, 1164
"DINSDALE"

W.S. 321 A

No 1078 Breakfast Report No. *13221 - Dinsdale*

No 1080 " " *13281 Empire Chapman*

No. 1081 " " *13305 Empire T. Col. Day*

No. 1079 " " *13343 - Empire Spences*

No 1158 " " *13456 - Empire Blandford*

No 1159 " " *13590 Empire Dunderberg*

No 1164 " " *13417 " Benefit*

No 1189 " " *13560 " Traveller*

PLANS TRANSFERRED
TO SISTER VESSEL

Irvingdale I



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013627-013631-0116

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Foundation

11, 12
2.78
8.34

0116



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N^{os} 1078-9-80-1 & 1083G.

MIDSHIP SECTION.

DIMENSIONS:- 460'-0" B.P. x 59'-0" BREADTH MLQ x 34'-0" DEPTH MLQ.

SCALE:- 1/2" = ONE FOOT.

TO CLASS LLOYDS 100A.1.

CARRYING PETROLEUM IN BULK.

LONGITUDINAL FRAMING AT BOTTOM & AT DECK.

ALL BULB ANGLES ARE TO NEW BRITISH STANDARD.

SCANTLINGS SHOWN APPLY AMIDSHIPS AND ARE

TO BE INCREASED FOR SHEER AS REQUIRED.

SCANTLINGS INCLUDING SHELL, CLEAR OF CARGO.

OIL TANKS TO BE SPECIALLY CONSIDERED.

LLOYDS NUMERALS.

L x D 460'-0" x 34'-0" = 15640.

L x (B x D) 460'-0" (59'-0" x 34'-0") = 42780.

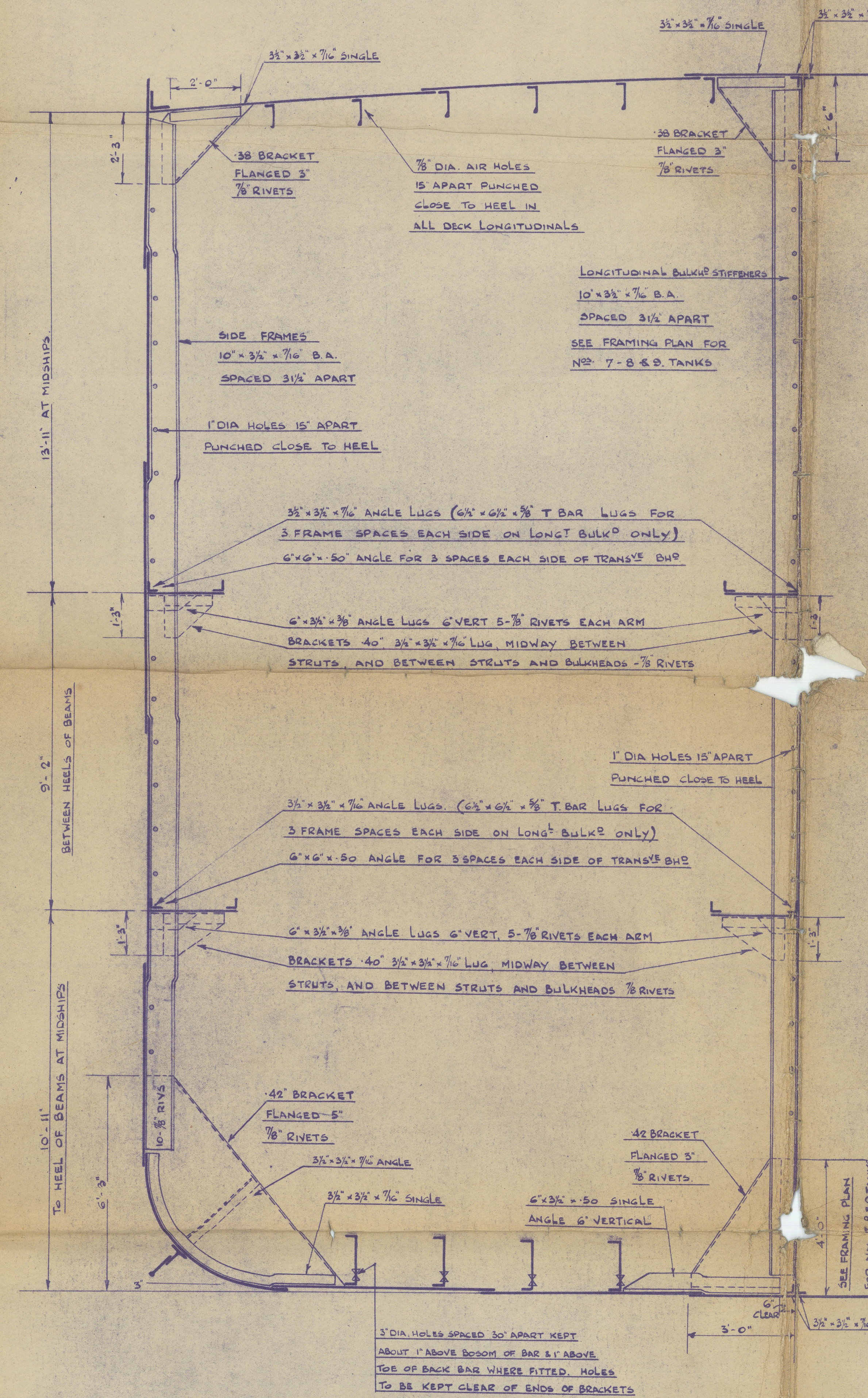
L/D 460/34 = 13.52.

ALL ATTACHMENT ANGLES TO BULKHEADS TO BE HYDRAULICALLY RIVETED ON THE GROUND PRIOR TO ERECTION. NO PLATE BEAMS OR BUTTS TO BE ARRANGED IN WAY OF THE CONNECTIONS OF THE TRANSVERSES & STRINGERS TO BULKHEADS.

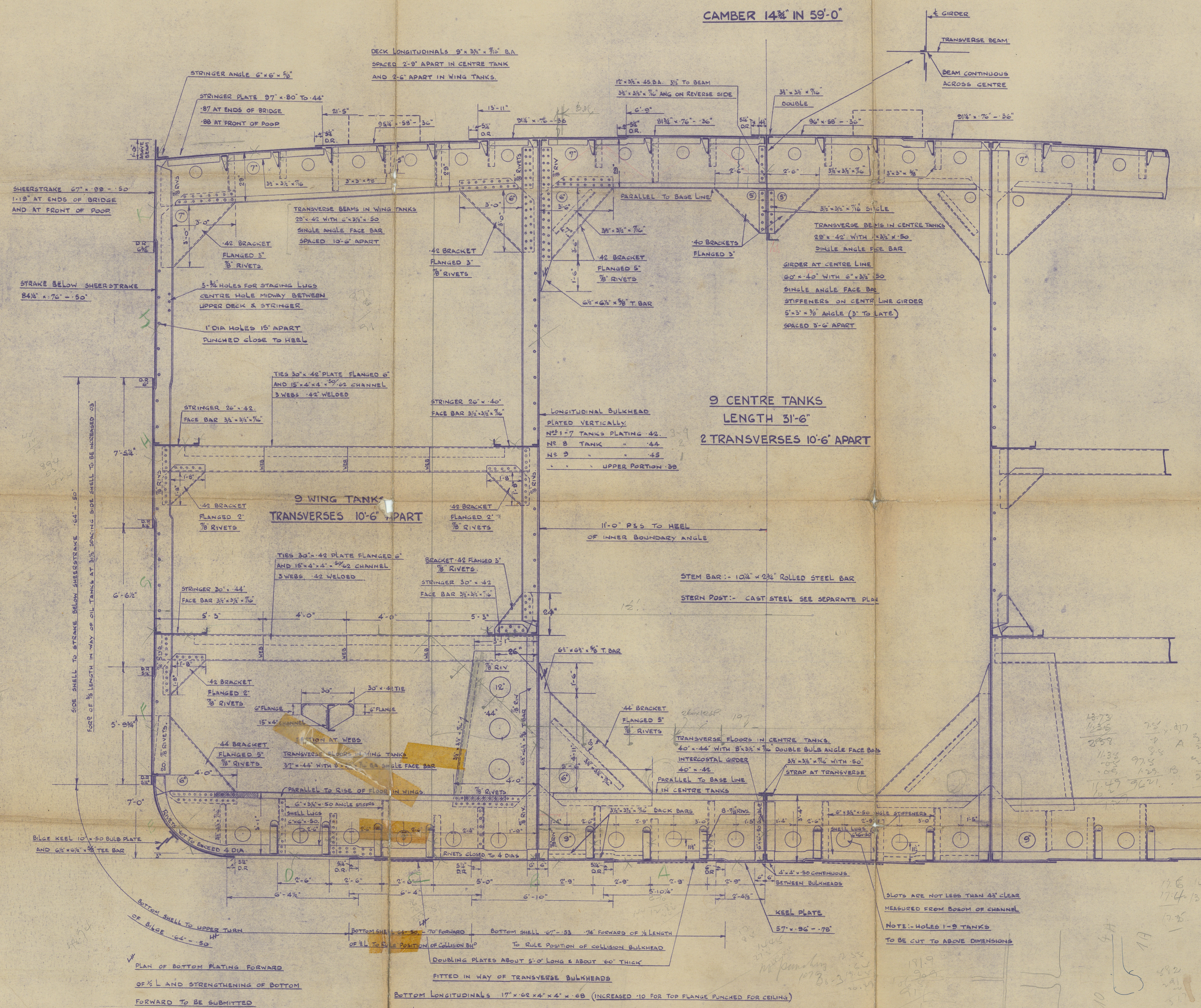
IN CONNECTIONS MARKED THIS 'X' RIVET HOLES IN BOTH BARS & BULKHEAD TO BE PUNCHED 1/4" SMALL AND CAREFULLY REAMERED OUT AFTER ASSEMBLY. CONNECTIONS TO BE THEN DISMANTLED AND SURFACES CLEANED AND ALL BURRS REMOVED. ON DE-ASSEMBLY BOLT TO BE FITTED IN EVERY 3RD HOLE, ALSO IN BOTH HOLES AT BOTH ENDS OF BARS AND ALL THOROUGHLY HARDENED UP. END OF BARS ON FACE SIDE OF BULKHEADS TO BE WELDED PRIOR TO RIVETING (SEE SKETCH).

DETAIL OF CENTRE GIRDER TRIPPING BRACKETS.

BRACKETS MIDWAY BETWEEN TRANSVERSES & BETWEEN TRANSVERSES AND BULKHEADS. 6" x 3/4" x 50" VERTICAL ANGLE STIFFENERS. FITTED TO INTERGOSTAL & GIRDER BETWEEN BRACKETS & TRANSVERSES & BULKHEAD.



SECTION THROUGH WING TANKS
AT INTERMEDIATE FRAME



SECTION AT TRANSVERSE LOOKING AFT

RIVETING.

BOTTOM SHELL BUTTS:- QUADRUPLE OVERLAPS TO TREBLE AT ENDS.
SIDE SHELL BUTTS:- DOUBLE RIVETED FORE AND AFT.
SHELL LANDINGS:- DOUBLE RIVETED FORE AND AFT.
KEEL PLATE BUTTS:- QUADRUPLE OVERLAPS TO QUADRUPLE AT ENDS.
SHEERSTRAKE BUTTS:- QUADRUPLE OVERLAPS FOR 1/2 LENGTH TO TREBLE.

STRAKE BELOW SHEERSTRAKE:- QUADRUPLE OVERLAPS FOR 1/2 LENGTH TO TREBLE.
BUTTS:- AT ENDS WHERE NOT EXCEEDING 10\"/>

THICK PLATES AT BREAKS:- DOUBLE STRAPPED, TREBLE RIVETED.
UPPER DECK STIFFENERS:- QUADRUPLE OVERLAPS FOR 1/2 LENGTH TO TREBLE.

AT ENDS WHERE NOT EXCEEDING 10\"/>

THICK UPPER DECK STRINGER PLATES AT BREAKS:- QUADRUPLE OVERLAPS.
UPPER DECK BUTTS:- QUADRUPLE OVERLAPS FOR 1/2 LENGTH WHERE ABOVE 10\"/>

LANDINGS:- DOUBLE RIVETED IN WAY OF OIL, SINGLE RIVETED ELSEWHERE.
OILTIGHT BULKHEAD BUTTS AND LANDINGS:- DOUBLE RIVETED.

RIVET SPACING.

RIVETS IN BOTTOM LONGITUDINALS TO SHELL:- 3/4\"/>

SIDE OF TRANSVERSES AND BULKHEADS:- 4\"/>

RIVETS IN DECK LONGITUDINALS:- 6\"/>

SIDE FRAMES TO SHELL IN WAY OF OIL:- 5\"/>

FRAMES TO SHELL CLEAR OF OIL AND PEAKS:- 7\"/>

FRAMES TO FLOORS & REVERSE FRAMES, CLEAR OF OIL:- 7\"/>

FACE BARS TO FLOORS IN WAY OF OIL:- 6\"/>

OILTIGHT BULKHEAD STIFFENERS:- 5\"/>

SIDE STRINGER ANGLES TO SHELL:- NOT MORE THAN 4\"/>

ATTACHMENT TO O.T. BULKHEADS:- NOT MORE THAN 4\"/>

FRAMES AND FLOORS IN AFTER PEAK:- 5\"/>

FRAMES TO FLOORS & FRAMES TO SHELL ON BOTTOM FORWARD OF 1/2 L FOR 1/2\"/>

SHELL BEAMS IN WAY OF OIL:- 4\"/>

UPPER DECK BEAMS & BUTTS IN WAY OF OIL:- 4\"/>

3/4\"/>

BUTTS OF KEEL, SHEERSTRAKE:- QUADRUPLE BUTTS:- 4\"/>

STRAKE BELOW SHEERSTRAKE:- QUADRUPLE BUTTS:- 4\"/>

UPPER DECK STRINGER:- TREBLE BUTTS:- 3/4\"/>

RIVETS IN OILTIGHT BULKHEAD FRAMES & SURROUND ANGLES:- 5\"/>

TRANSVERSE BEAMS TO DECK IN WAY OF OIL:- 5\"/>

TRANSVERSE FLOORS TO SHELL IN WAY OF LONGITUDINAL DRAWING:- 5\"/>

BACK BARS FITTED 4\"/>

FACE BARS ON TRANSVERSE DECK BEAMS:- 6\"/>

BRACKET ATTACHMENT WHERE NOT SPECIALLY INDICATED TO BE NOT MORE THAN 5\"/>

3 BOWER ANCHORS 15,000 CWTs EACH STOCKLESS
1 STEAM ANCHOR 25 CWTs (EX STOCK)
240 FATHOMS 2 1/2\"/>